

Claims

- 1        1. An energy conservation system comprising:
  - 2            a master controller activated by a room occupant action;
  - 3            a radio frequency transmitter located within said master controller and
  - 4            having a broadcast range;
  - 5            a radio frequency receiver remote from said radio frequency transmitter
  - 6            and coupled to an electrical switching circuit responsive to a radio frequency
  - 7            signal received from said radio frequency transmitter; and
  - 8            a controlled power device coupled to the electrical switching circuit
  - 9            such that the device is coupled to an energy source upon activation of said
  - 10          master controller.
- 1        2. The energy conservation system of claim 1 wherein said master controller in a deactivated state causes said electrical switching circuit to deactivate said controlled power device.
- 1        3. The system of claim 1 wherein the master controller is mounted within a lodging room proximal to an entryway.
- 1        4. The system of claim 1 wherein the room occupant action that activates said master controller is insertion of a card into said master controller.

1           5.    The system of claim 1 wherein said radio frequency transmitter  
2    is a crystal.

1           6.    The system of claim 1 further including a thermostat control  
2    unit.

1           7.    The system of claim 1 wherein the radio frequency transmitter  
2    further comprises a frequency modulation switch that allows for the transmitted  
3    frequency to be varied.

1           8.    The system of claim 1 wherein the electrical switching circuit is  
2    a relay.

1           9.    The system of claim 1 wherein the electrical switching circuit is  
2    a power transistor.

1           10.   A process of room energy conservation comprising the steps of:  
2           activating a radio frequency transmitter upon a room occupant action  
3    within a room;  
4           sending a radio frequency signal from said transmitter to a radio  
5    frequency receiver coupled to an electrical switching circuit within a controlled  
6    power device;

7               activating said controlled power device in response to the radio  
8               frequency signal being received by the receiver; and  
9               deactivating the RF transmitter upon a room occupant action when  
10              leaving the room.

1               11.   The process of claim 10 further comprising the step of:  
2               modulating a thermostat control unit with a radio frequency signal.

1               12.   The process of claim 10 wherein the master controller is  
2               mounted within a lodging room proximal to an entryway.

1               13.   The process of claim 10 wherein the electrical switching circuit  
2               is a relay.

1               14.   The process of claim 10 wherein the electrical switching circuit  
2               is a power transistor.

1               15.   Use of a radio frequency signaling system as claimed in claim 1  
2               to lessen energy consumption in a vacant room.